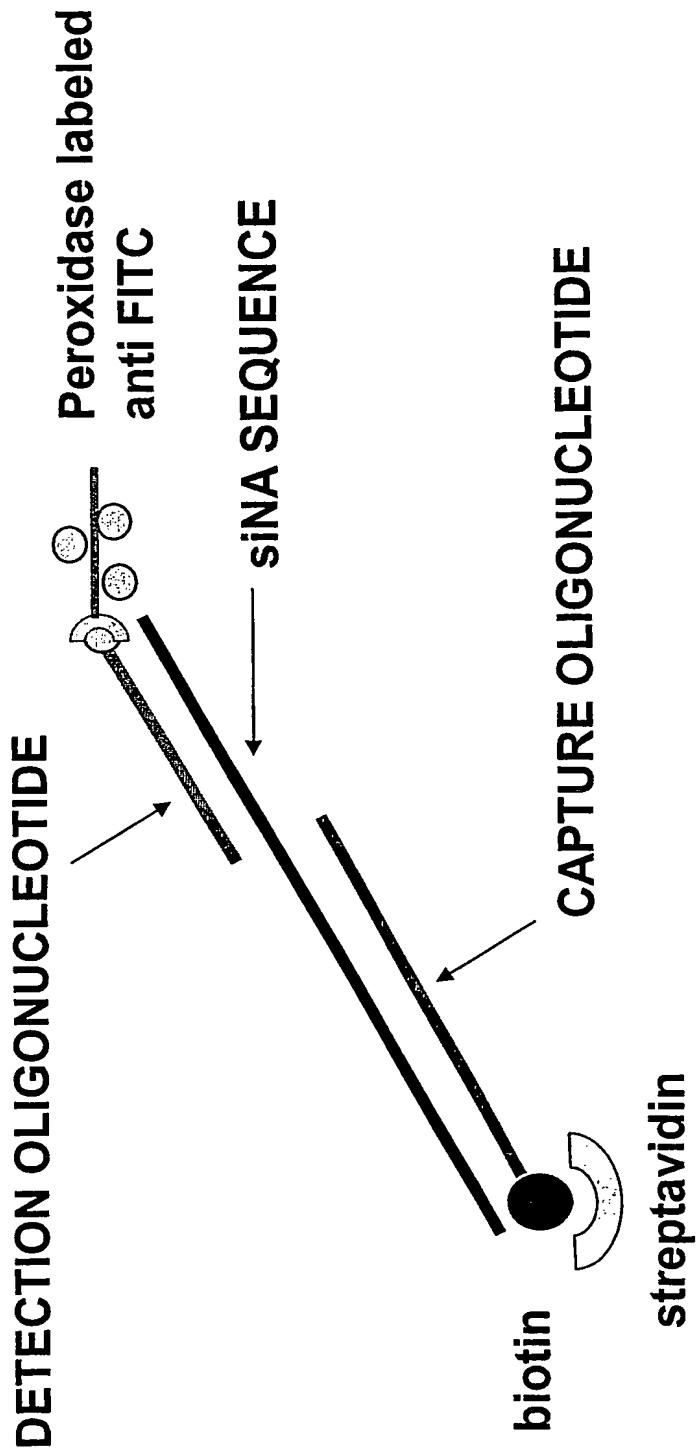
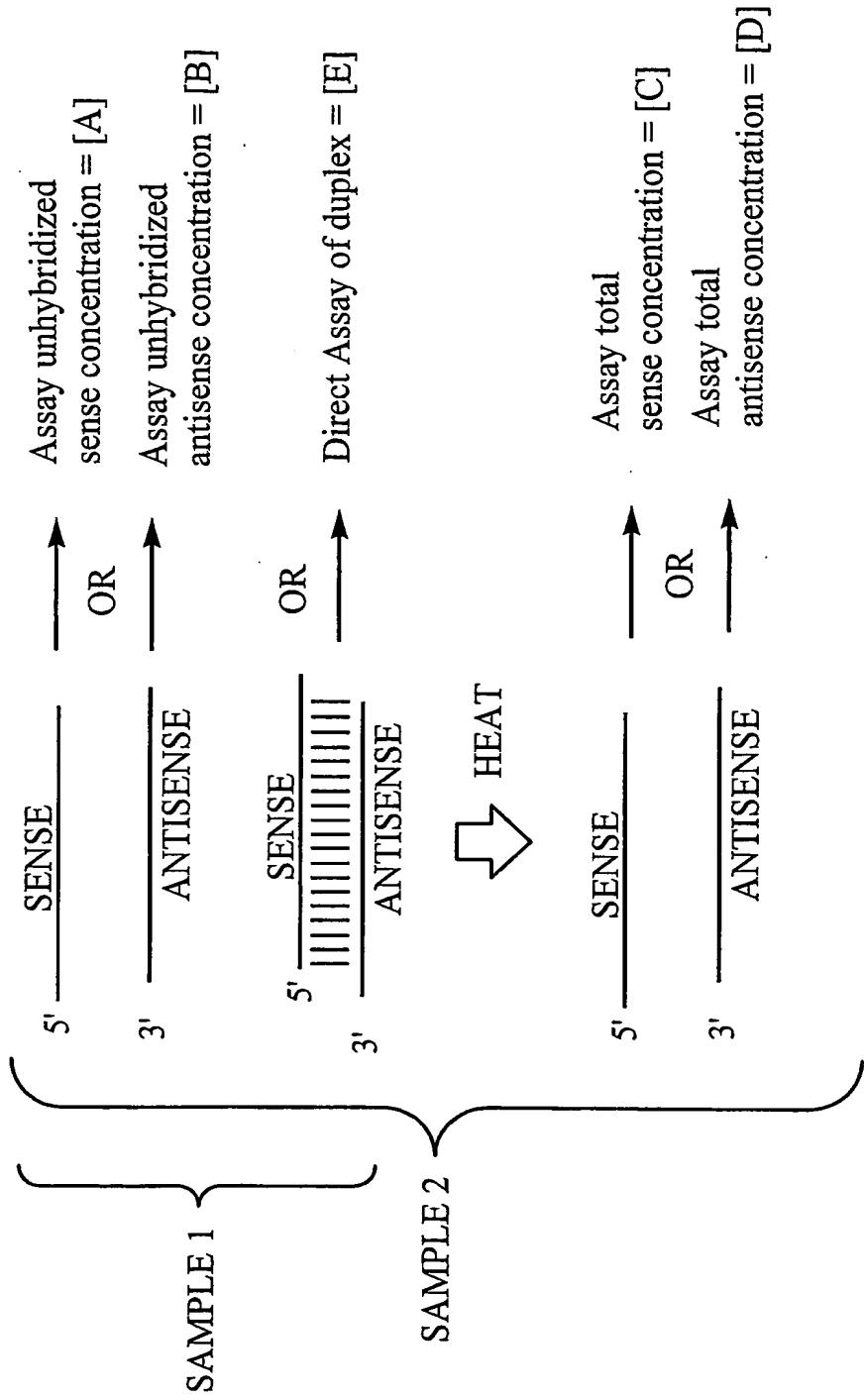


*Figure 1B: siNA Hybridization Assay*

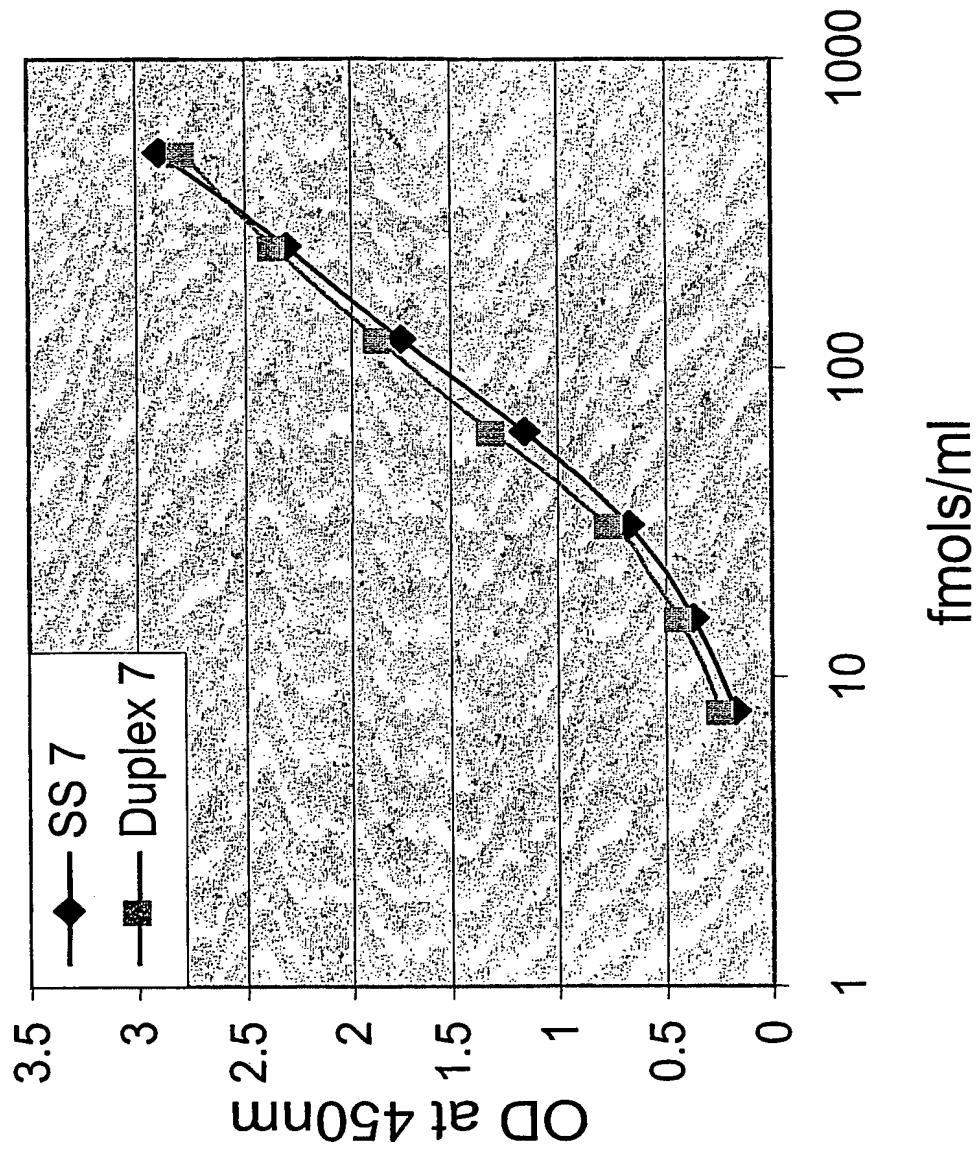


**Figure 1C: Principle of siNA detection/quantitation Assays**

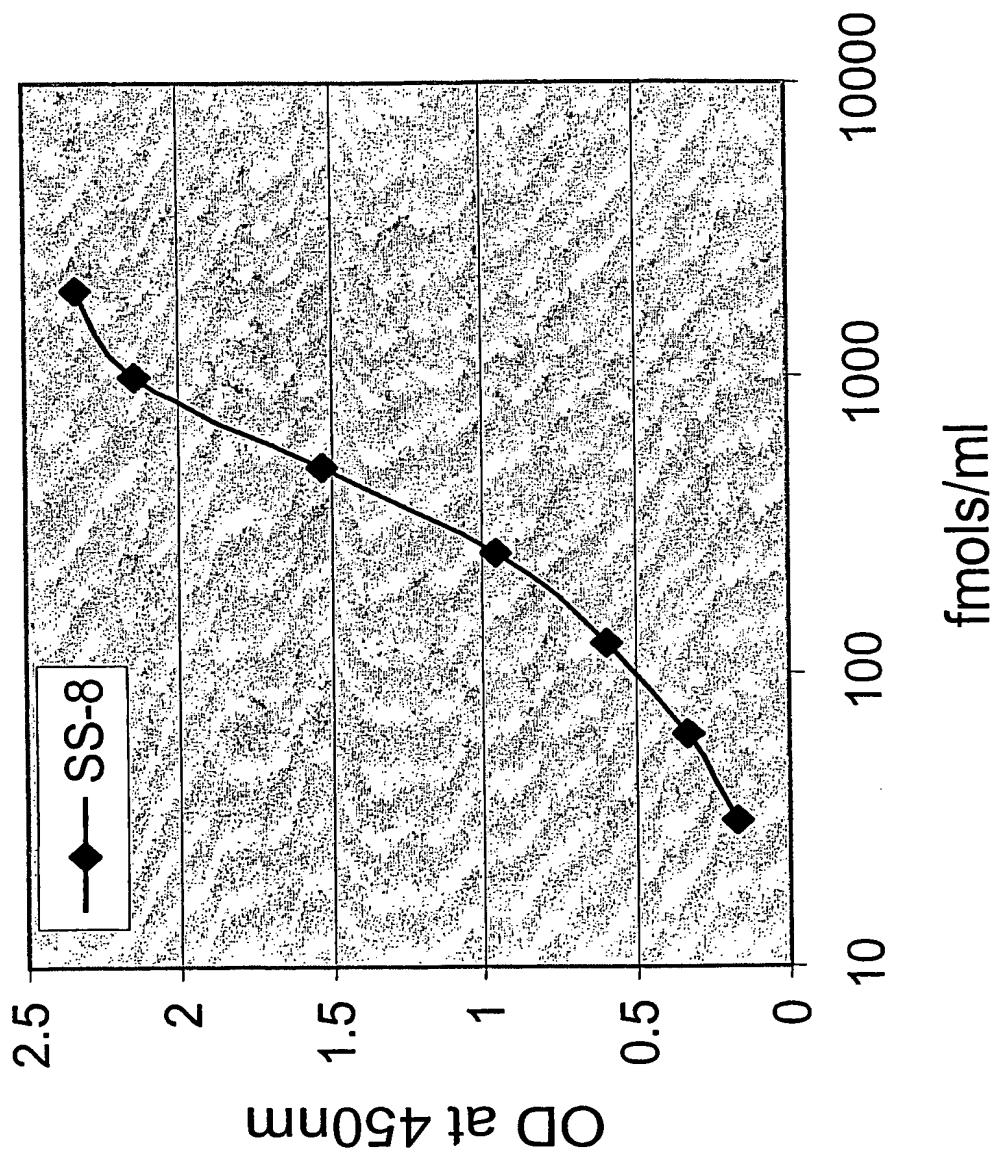


[C] - [A] = [Duplex] based upon analysis of sense strand  
 [D] - [B] = [Duplex] based upon analysis of antisense strand  
 [E] = [Duplex] based upon direct analysis of duplex

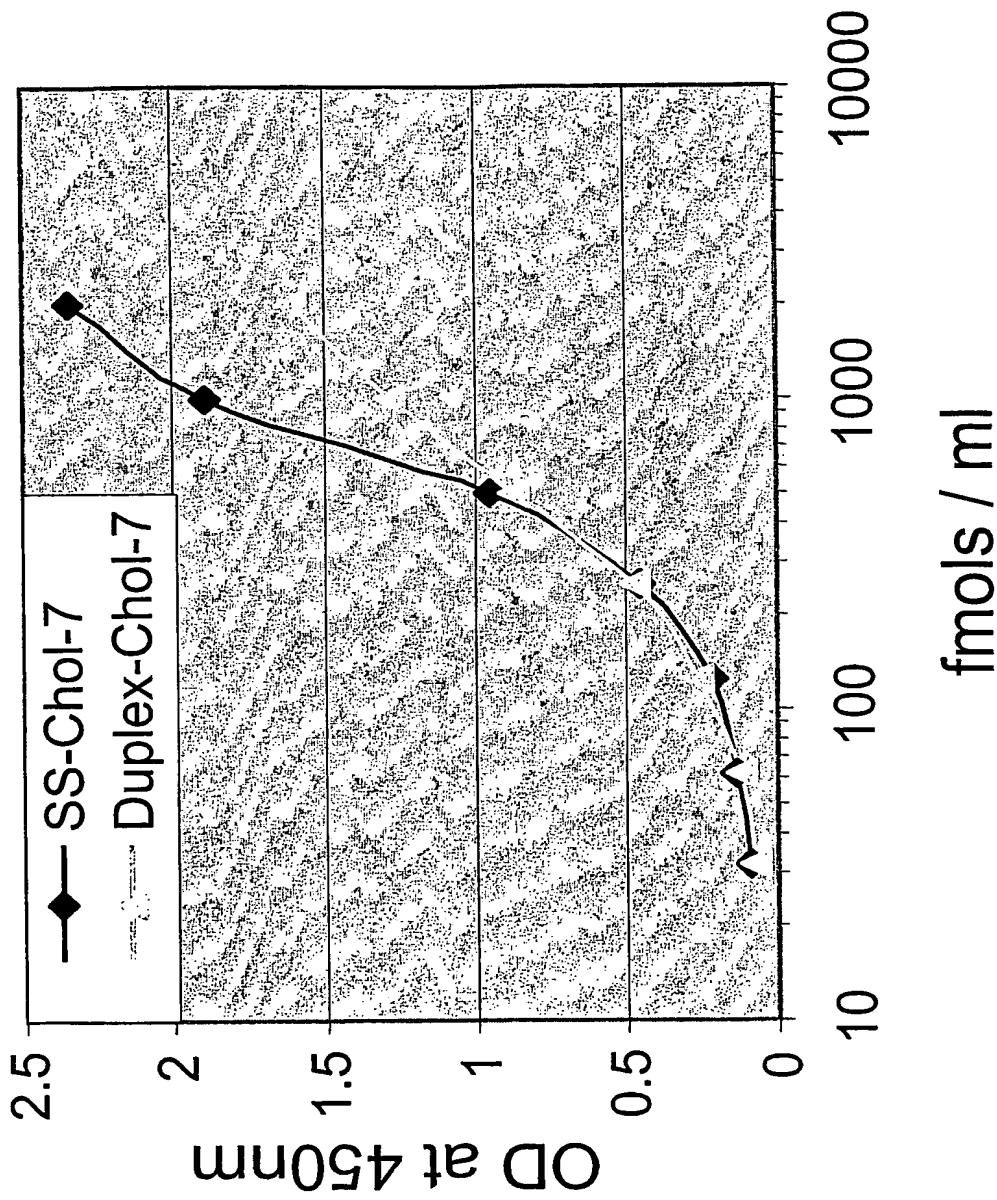
**Figure 2A: siNA Stab 7 Sense Strand Standard Curve**



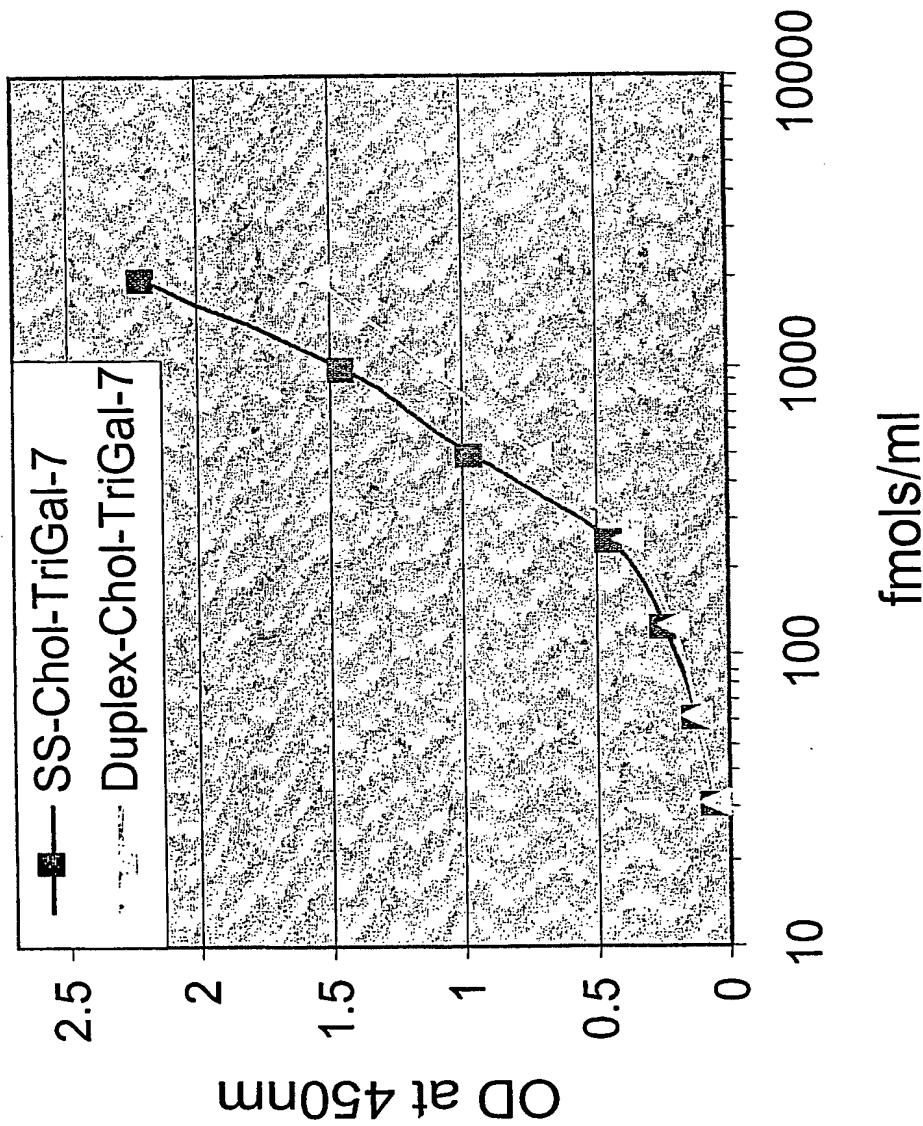
**Figure 2B: siNA Stab 8 Antisense Strand Standard Curve**



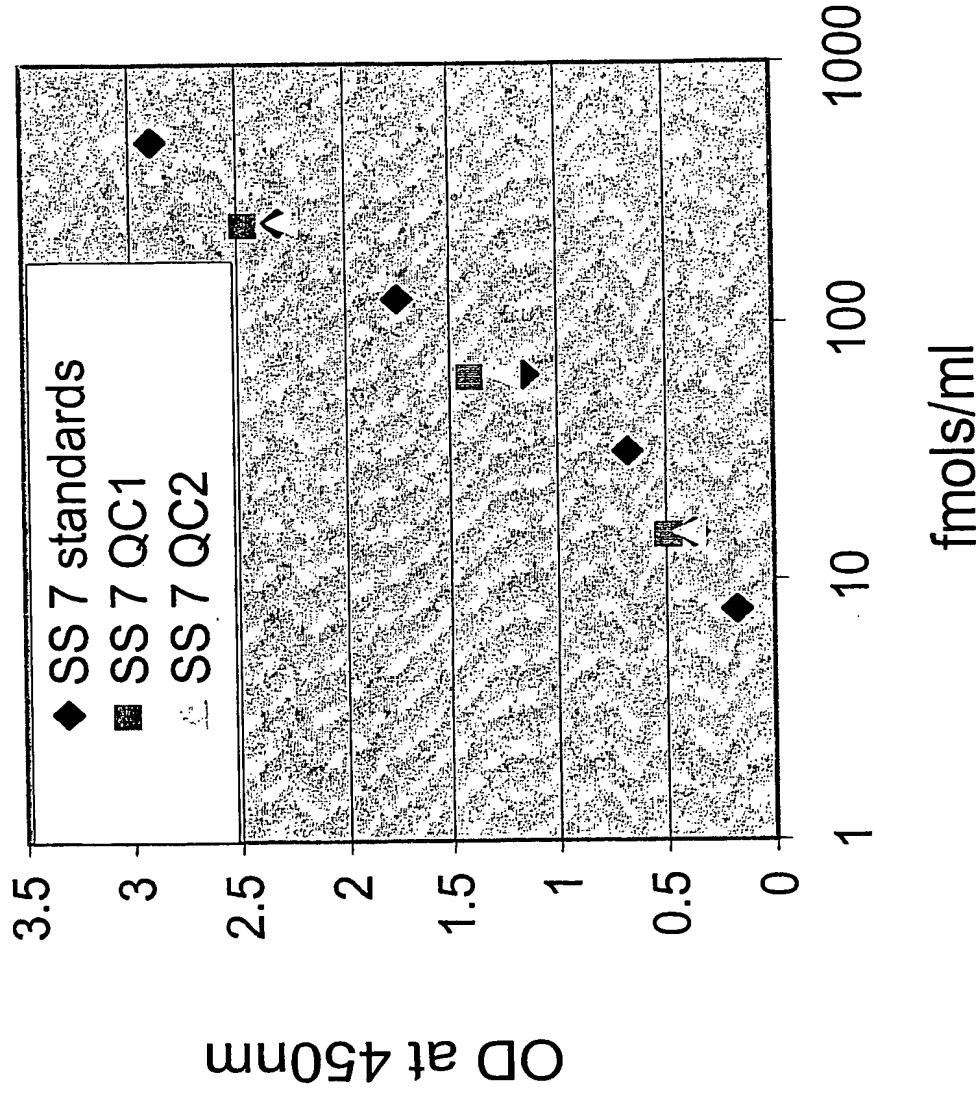
**Figure 2C: siNA Stab 7 Cholesterol Conjugate Sense Strand Standard Curve**



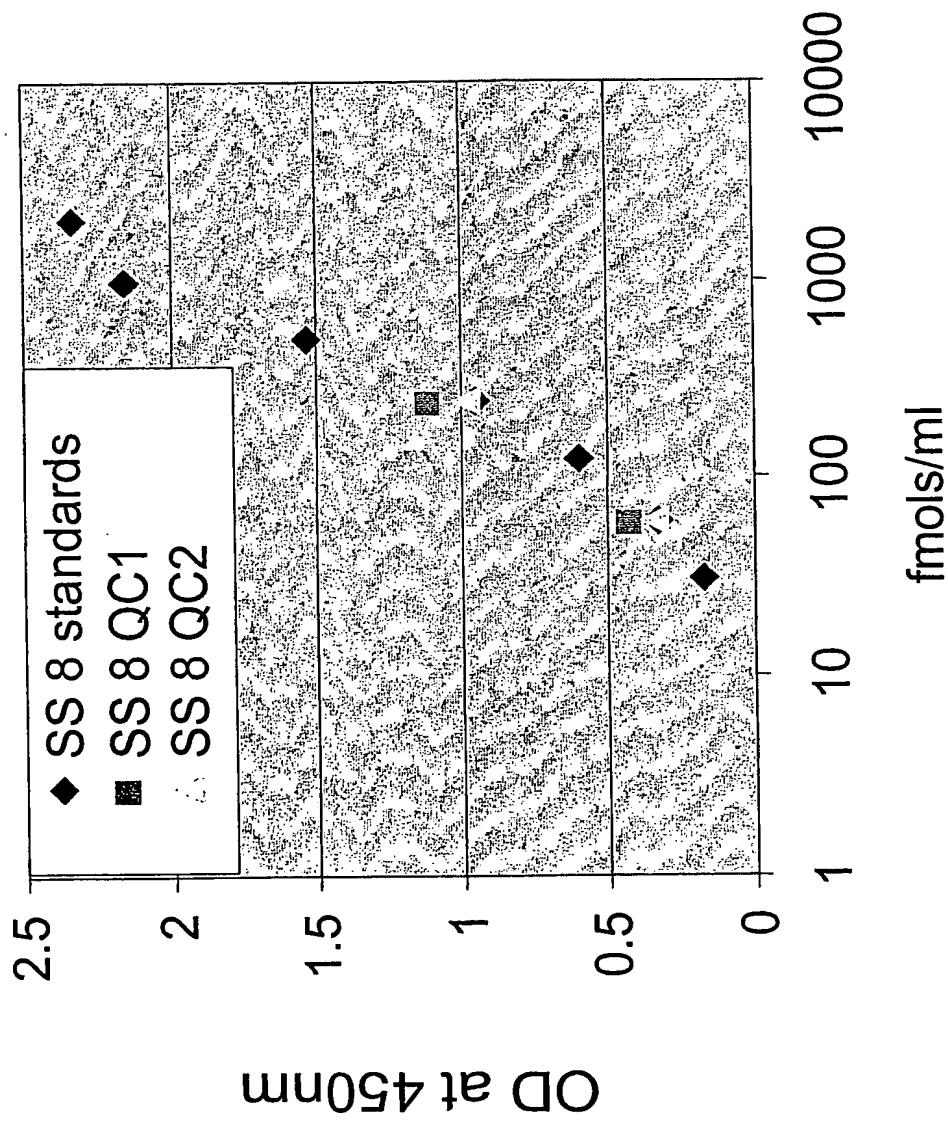
**Figure 2D: siNA Stab 7 Trigallactose Cholesterol Conjugate Antisense Strand Standard Curve**



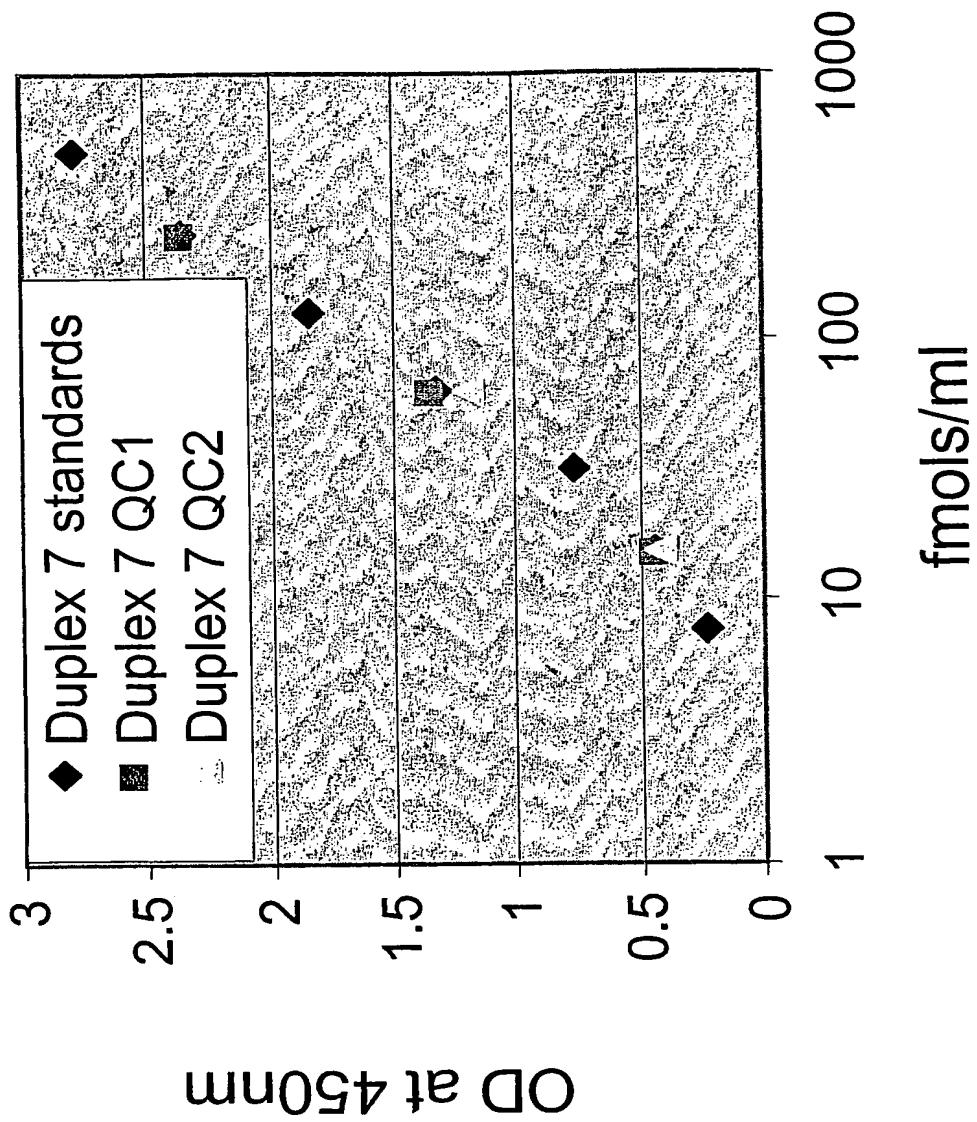
**Figure 3A: siNA Stab 7 Single Stranded Quality Control Sample**



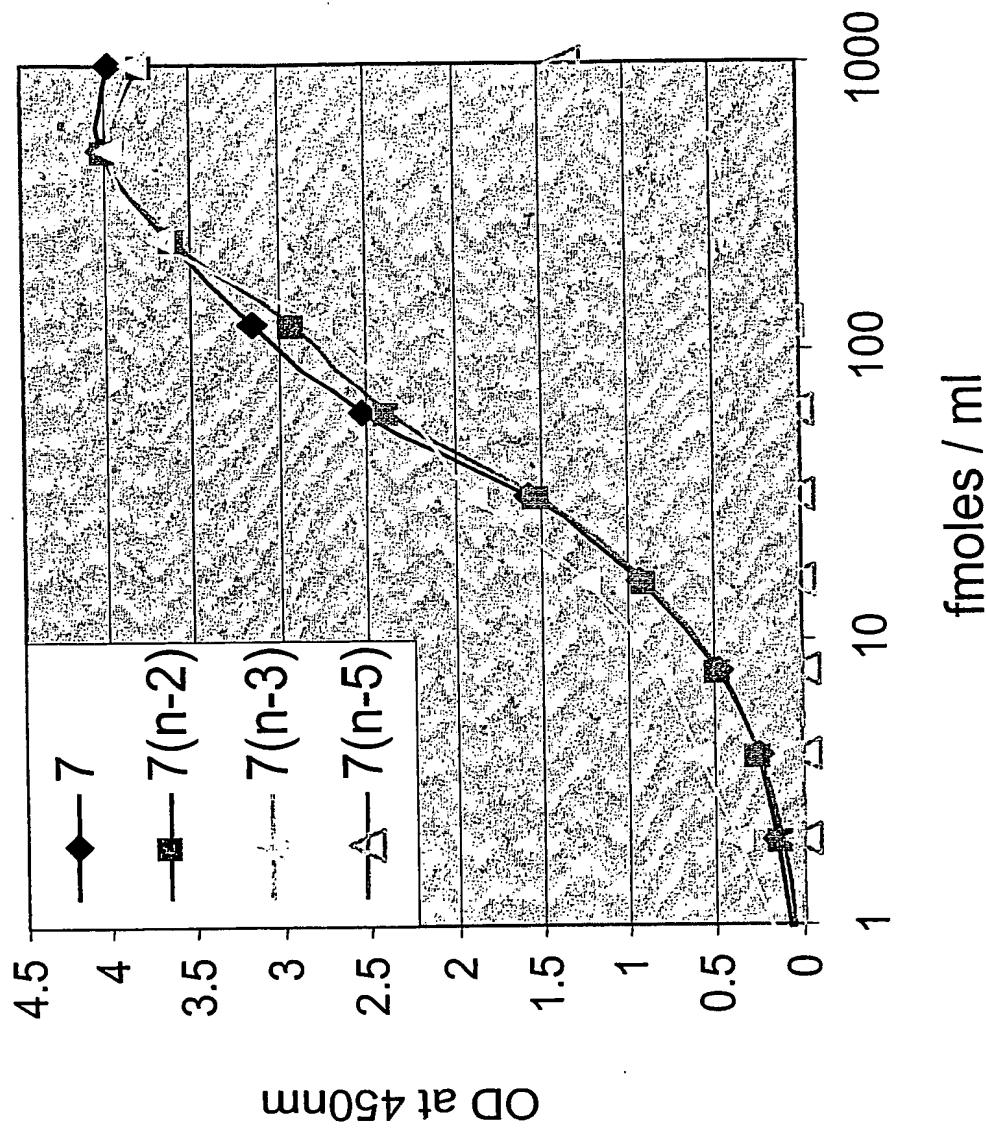
**Figure 3B: sINA Stab 8 Single Stranded Quality Control Sample**



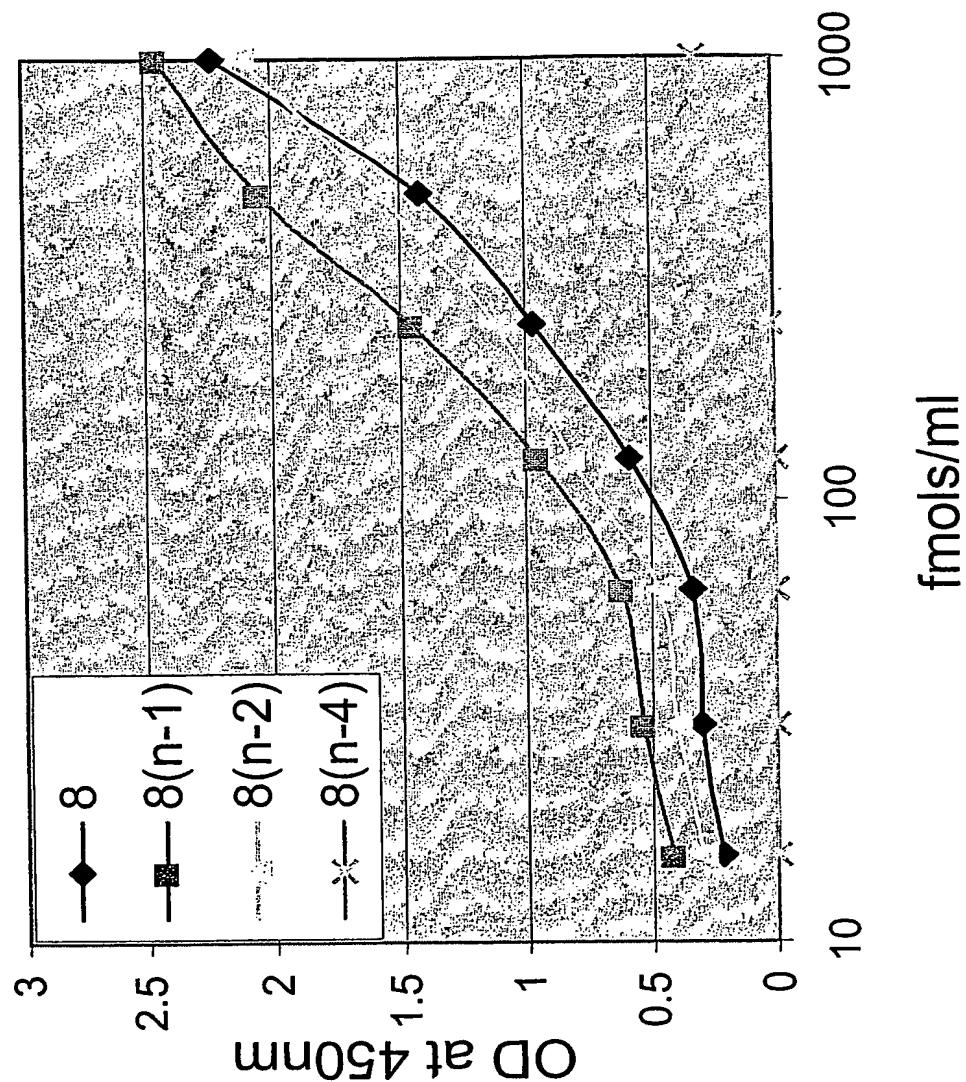
**Figure 3C: siNA Stab 7 Duplex Quality Control Sample**



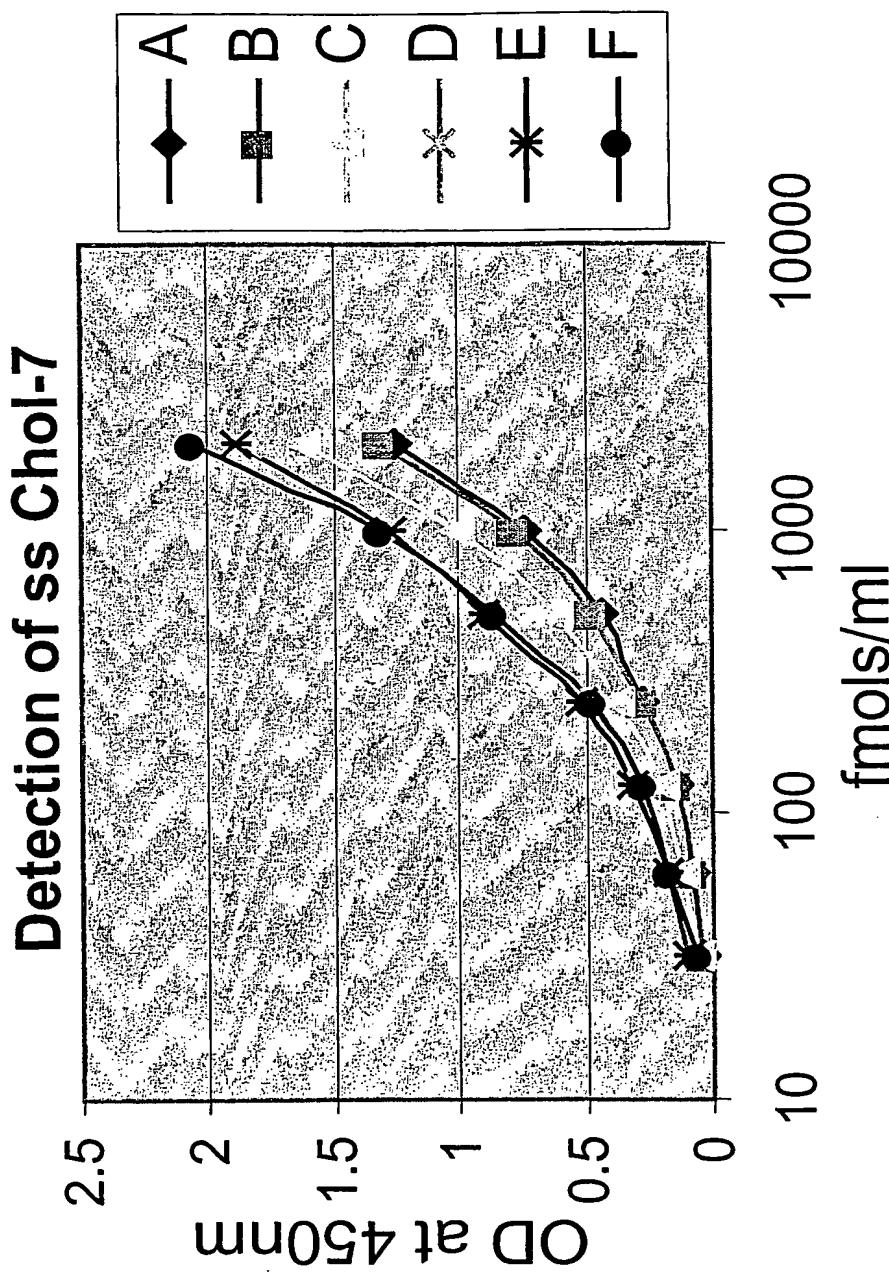
**Figure 4A: Detection of potential sINA Stab 7 Metabolites via Hybridization Assay**



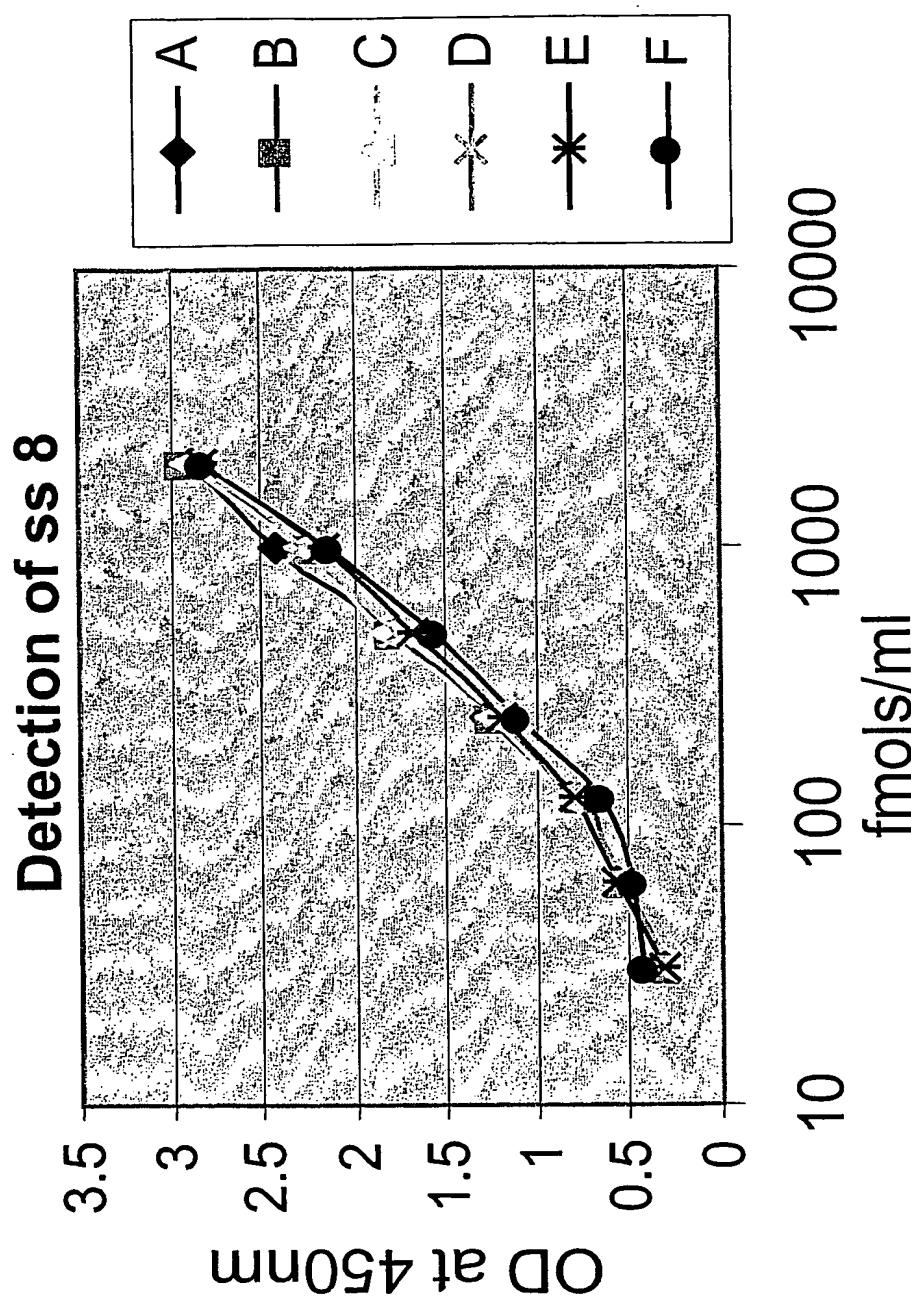
**Figure 4B: Detection of potential siNA Stab 8 Metabolites via Hybridization Assay**



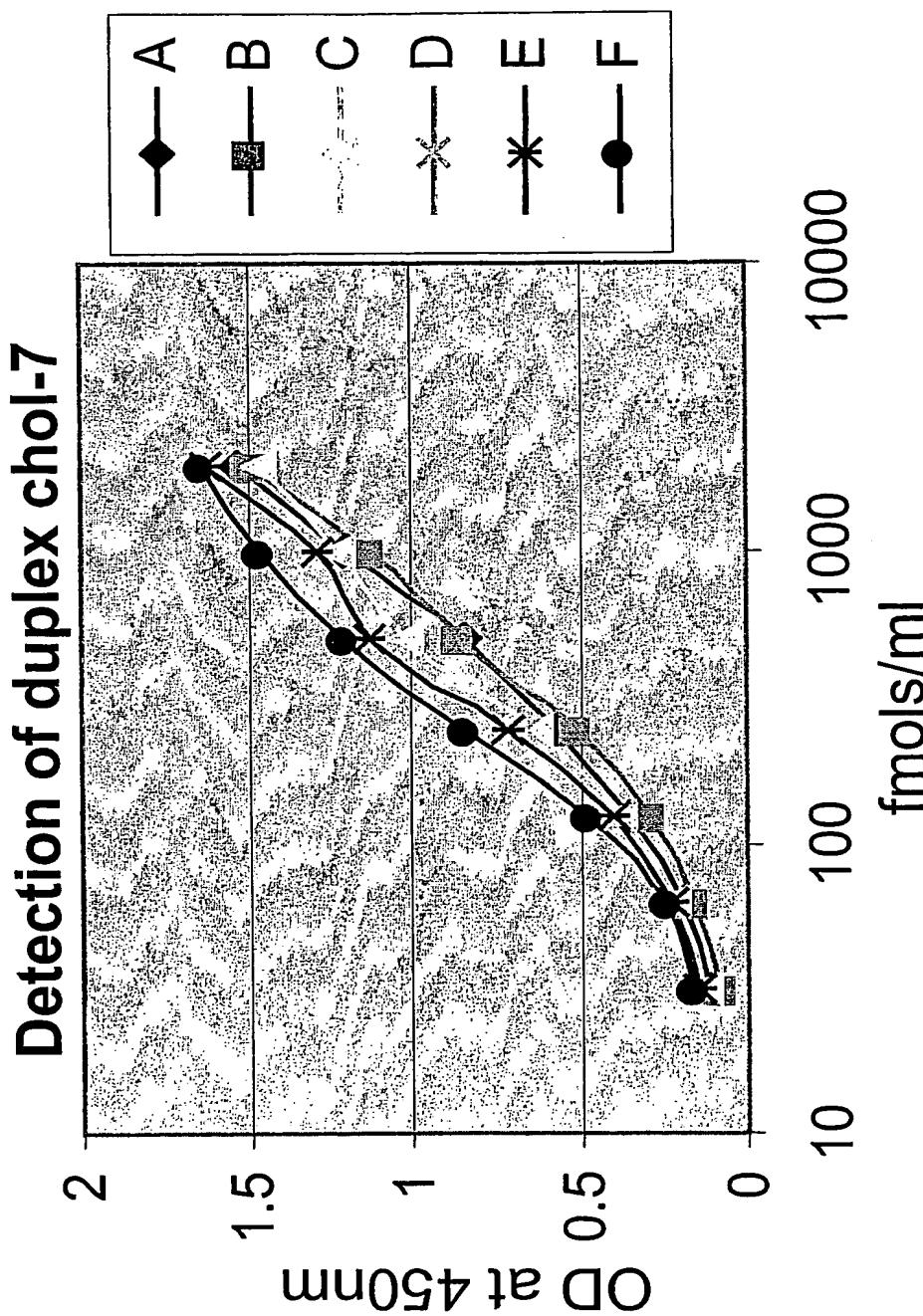
**Figure 5A: Effect of Hepatocyte lysate on detection of single stranded Stab 7 cholesterol conjugate siNA sequence**



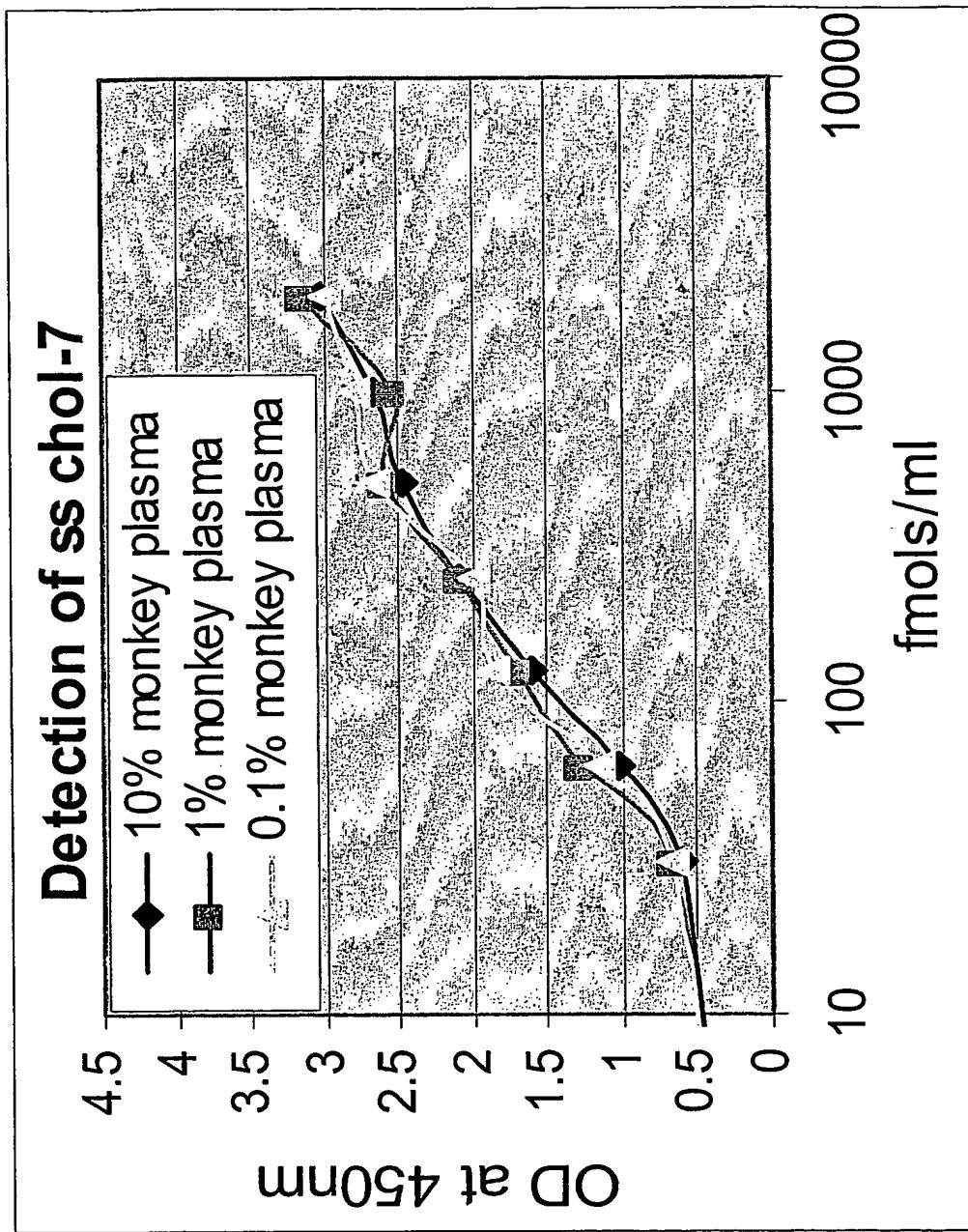
**Figure 5B: Effect of Hepatocyte lysate on detection of single stranded Stab 8 siNA sequence**



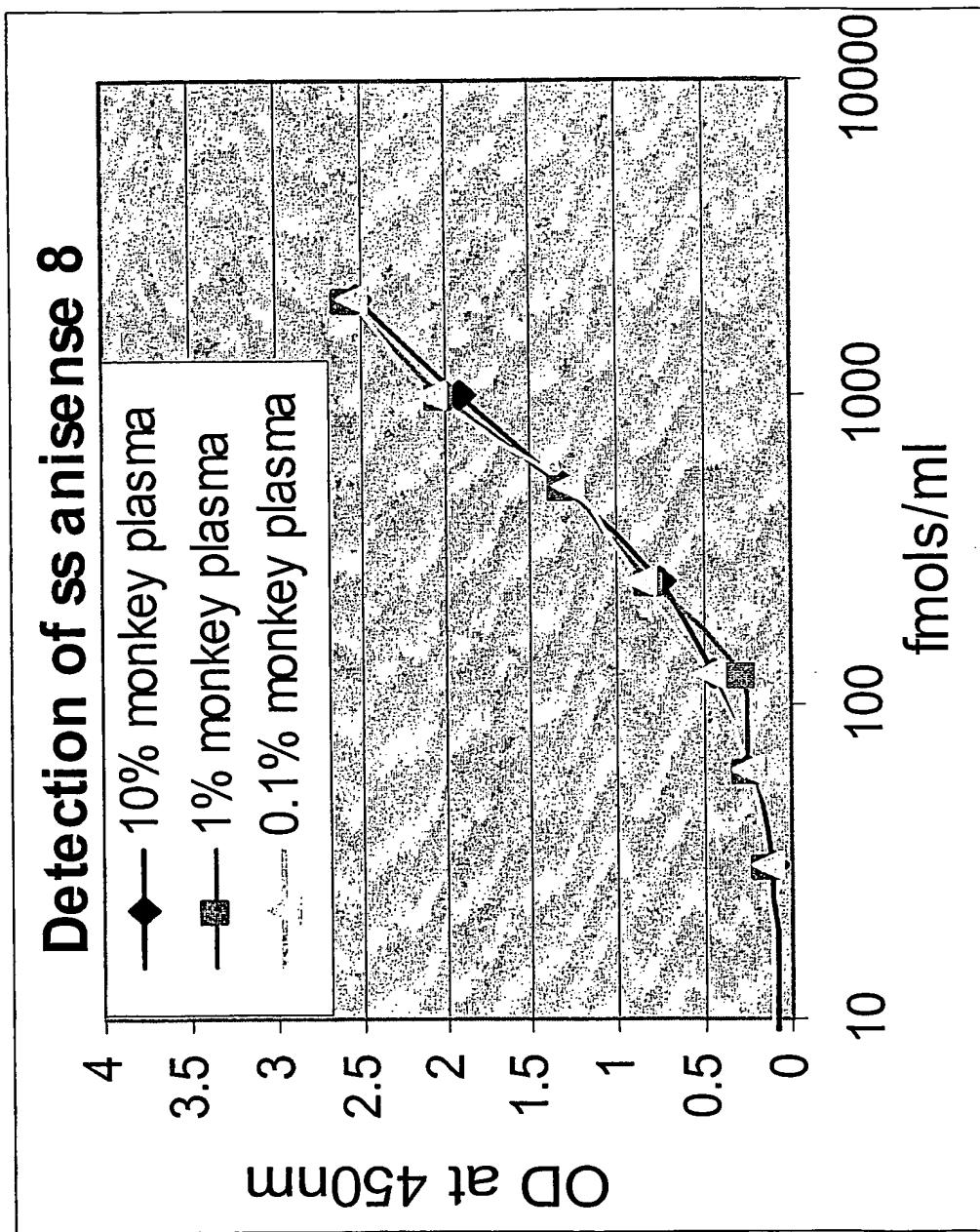
**Figure 5C: Effect of Hepatocyte lysate on detection of Stab 7 cholesterol conjugate duplex siNA sequence**



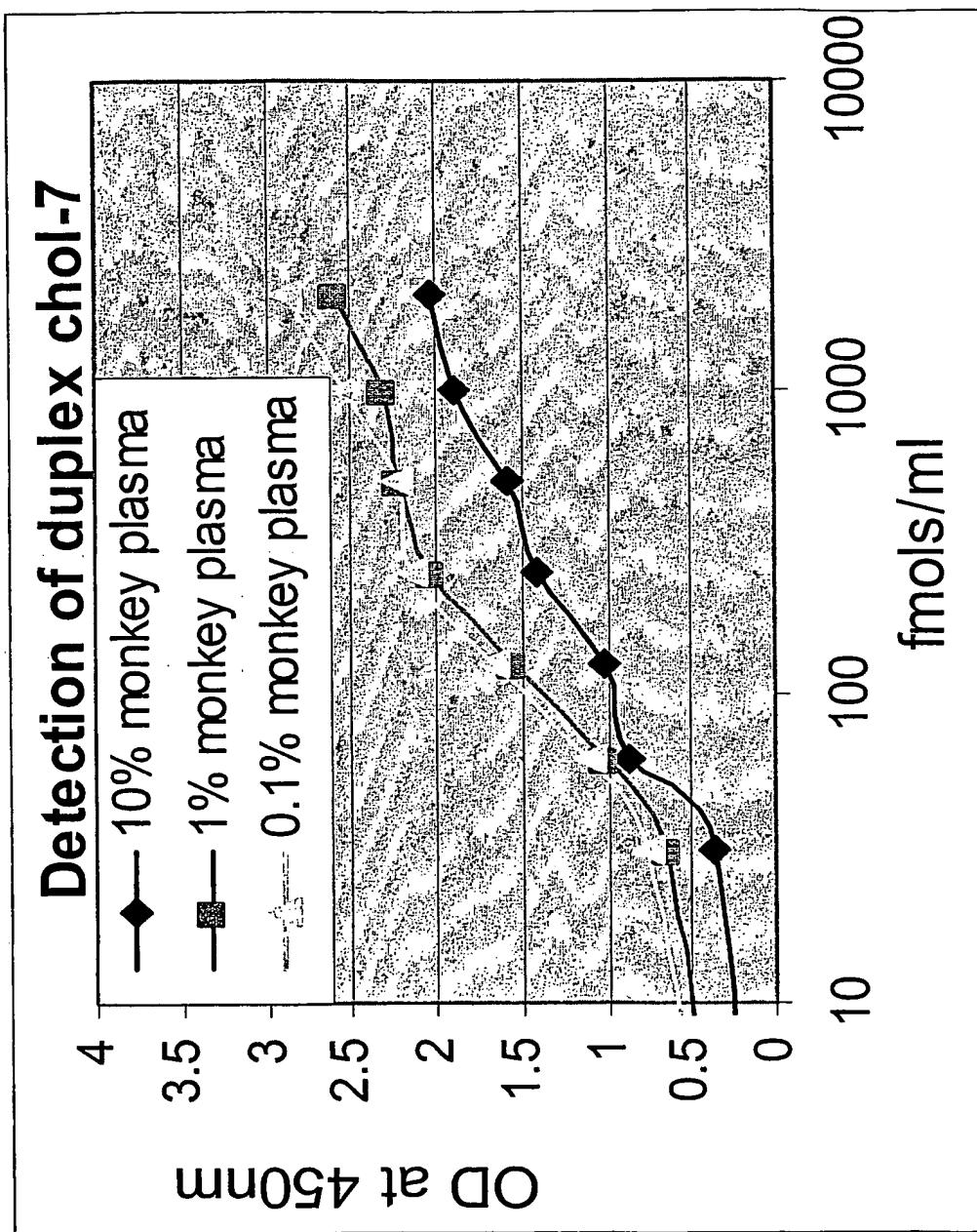
**Figure 6A: Effect of monkey plasma on detection of single stranded Stab 7 cholesterol conjugate siNA sequence**



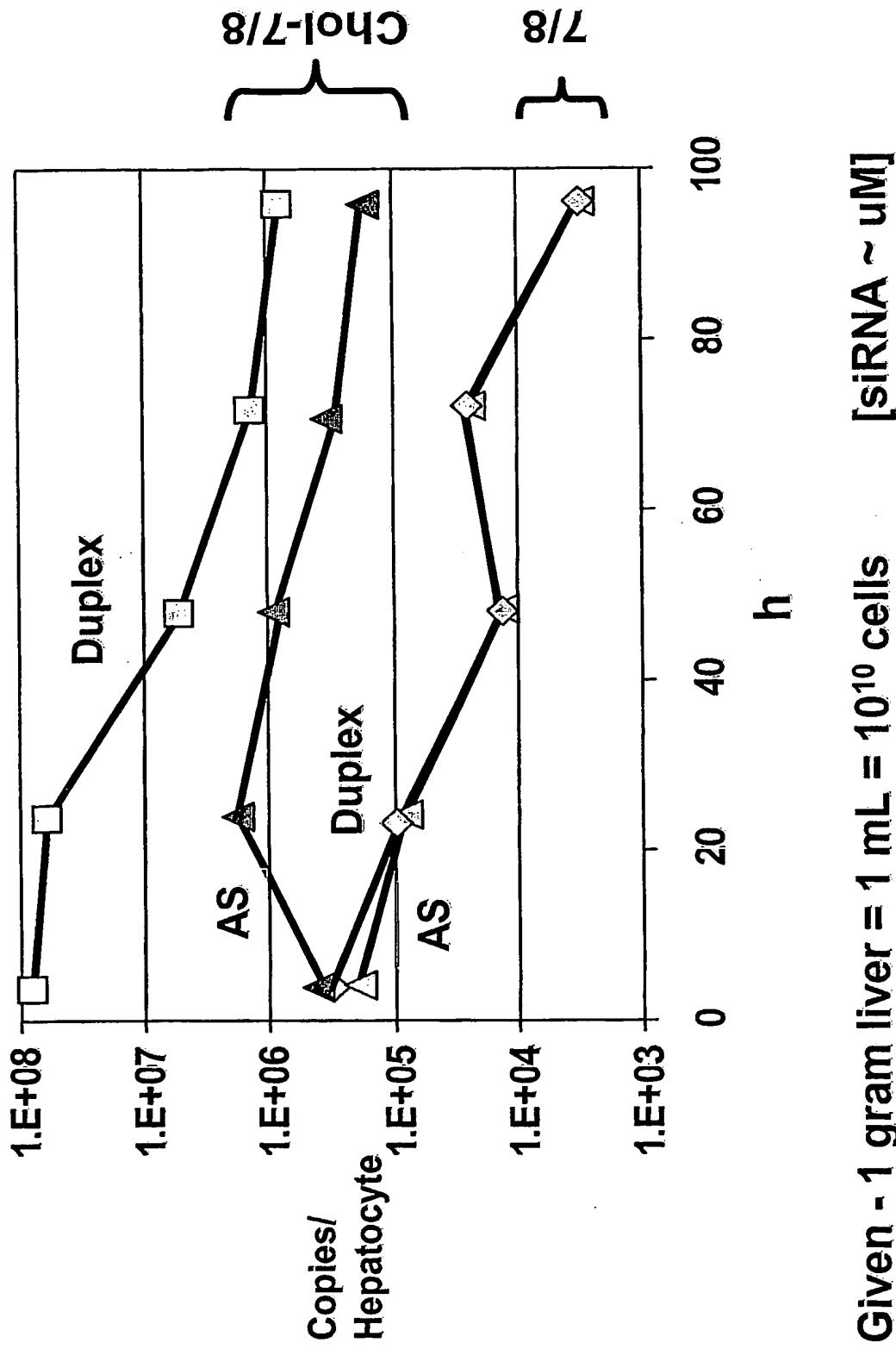
**Figure 6B: Effect of monkey plasma on detection of single stranded Stab 8 siNA sequence**



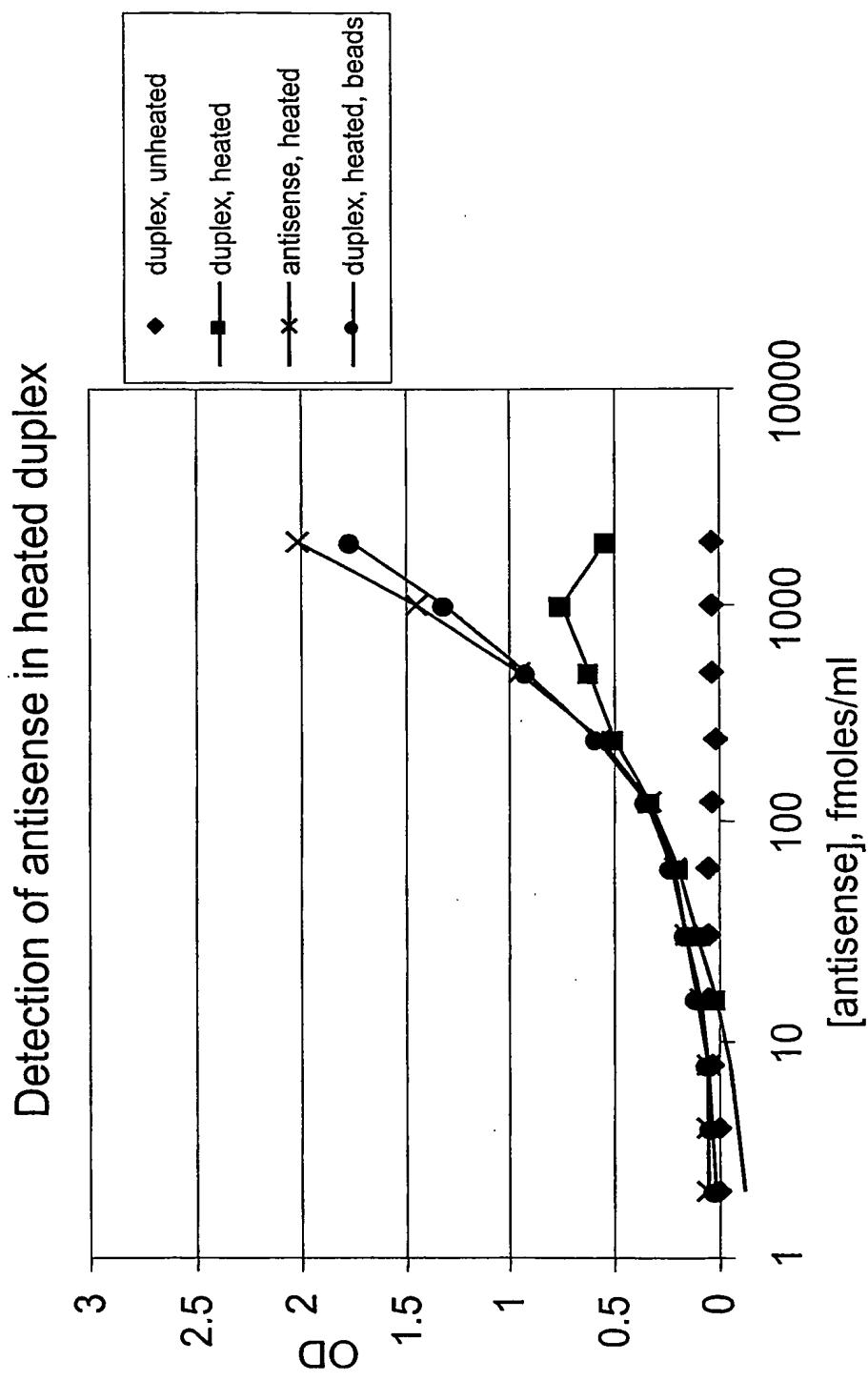
**Figure 6C: Effect of monkey plasma on detection of Stab 7 cholesterol conjugate duplex siNA sequence**



**Figure 7: Concentration of siNA duplex and antisense  
In Hepatocytes**



**Figure 8: Removal of Competitive binding sequence  
In duplex assay**



**Figure 9: Application of Hybridization Assay to siNA molecules having identical sequence with differing chemical modifications**

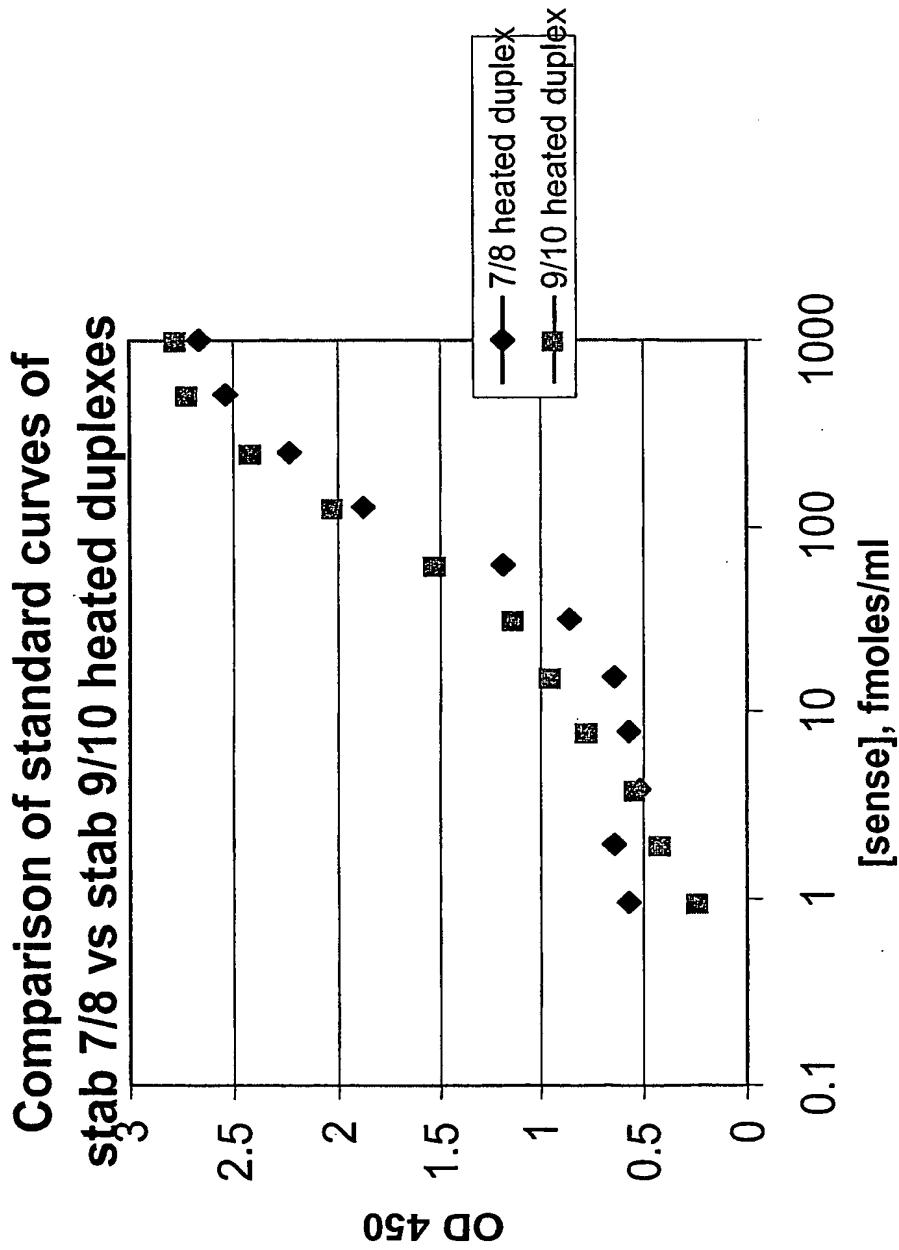


Figure 10

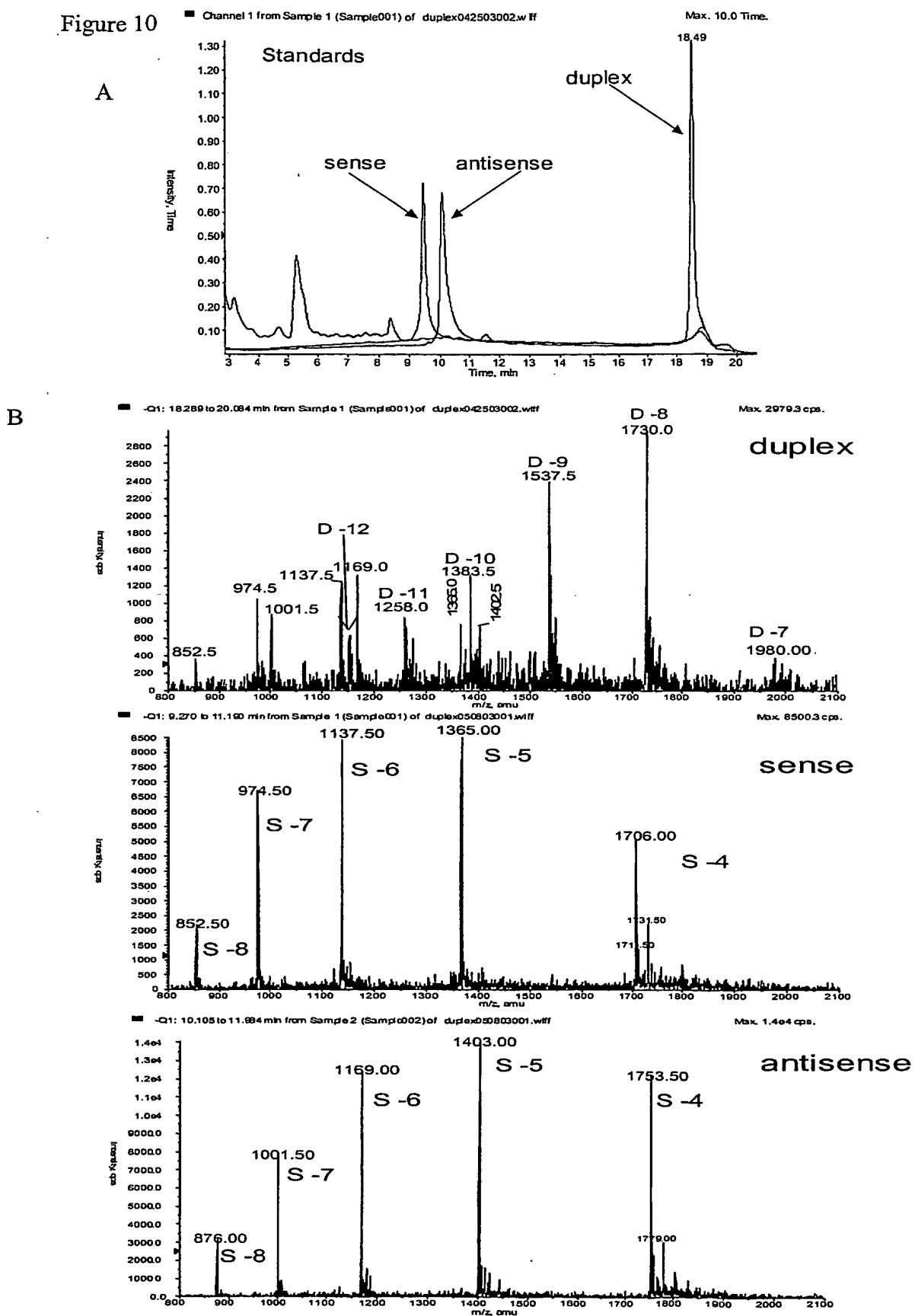
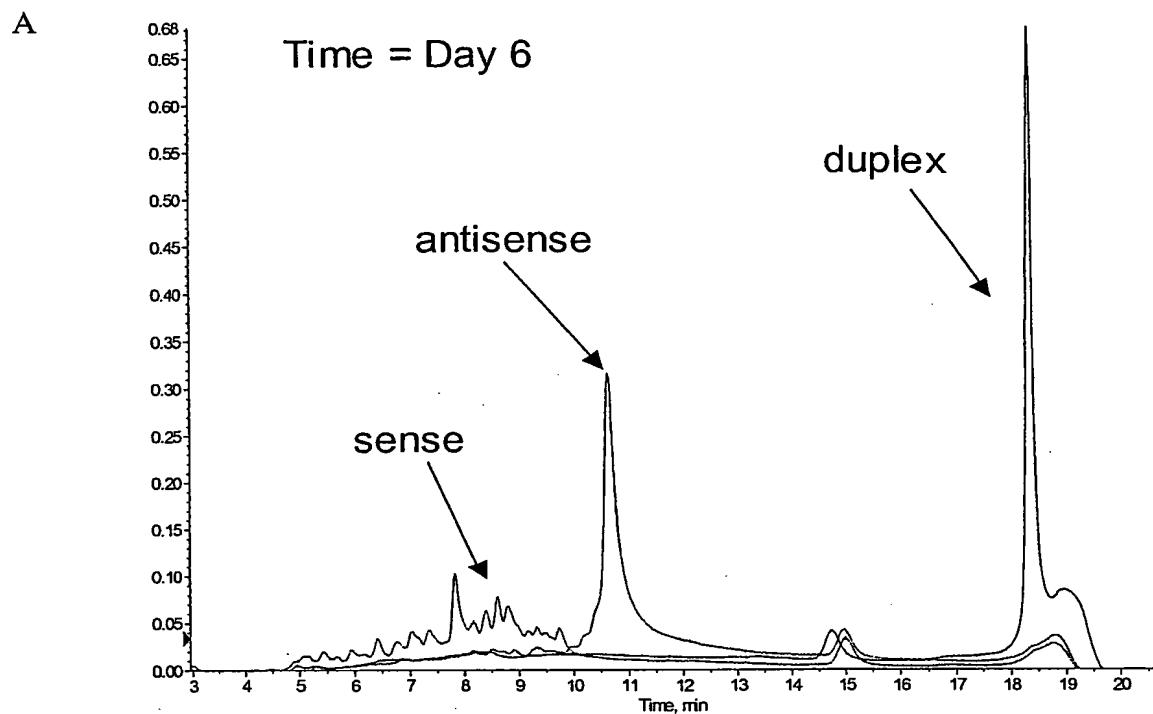


Figure 11

■ Channel 1 from Sample 7 (Sample003b) of duplex051303001.wiff

Max. 0.7 Time.



A/D Converter Channel 1 from Sample 1 (Sample001) of duplex050803001.wiff

Max. 0.7 Time.

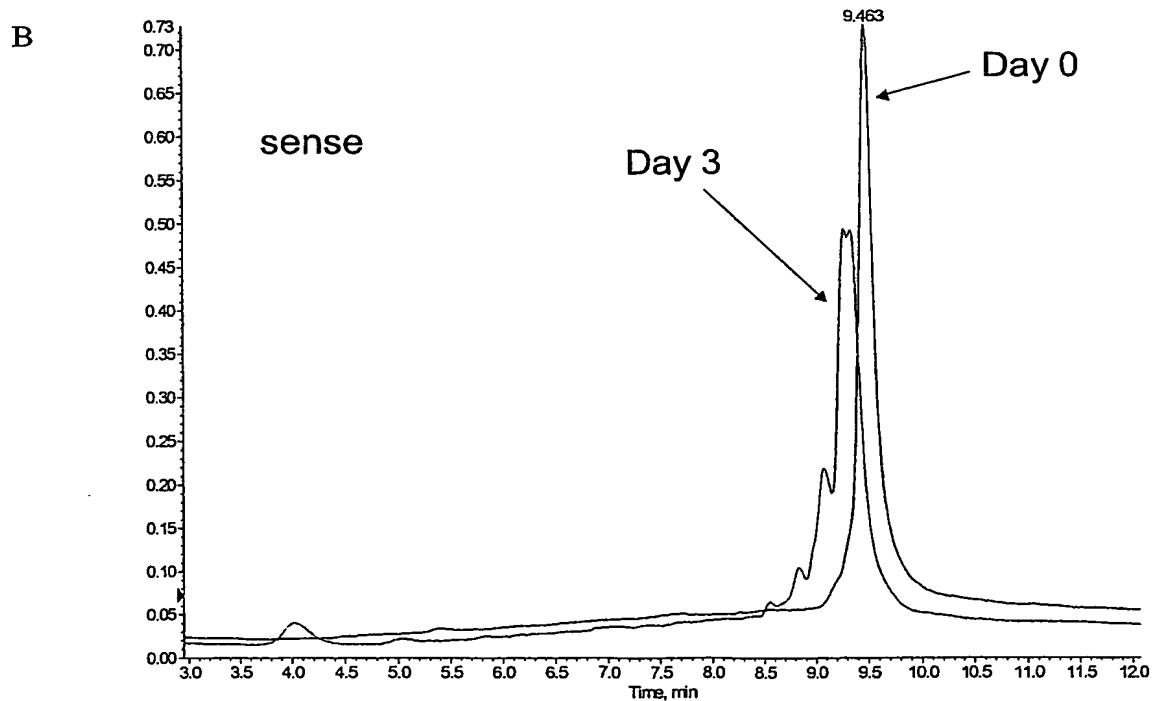
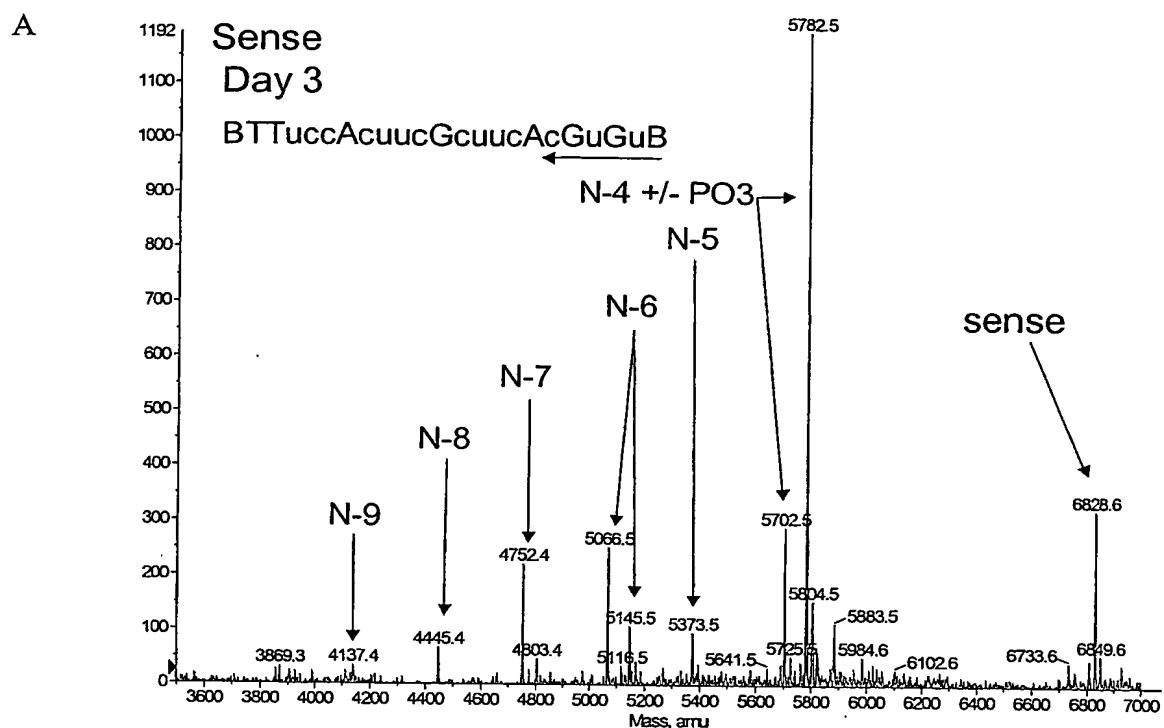


Figure 12

Mass reconstruction of -Q1: 8.643 to 11.023 min from Sample 1 (Sample001) of duplex050903002.wiff Max. 1.0 cps.



Mass reconstruction of -Q1: 9.520 to 10.981 min from Sample 2 (Sample002) of duplex051603001.wiff Max. 1.0 cps.

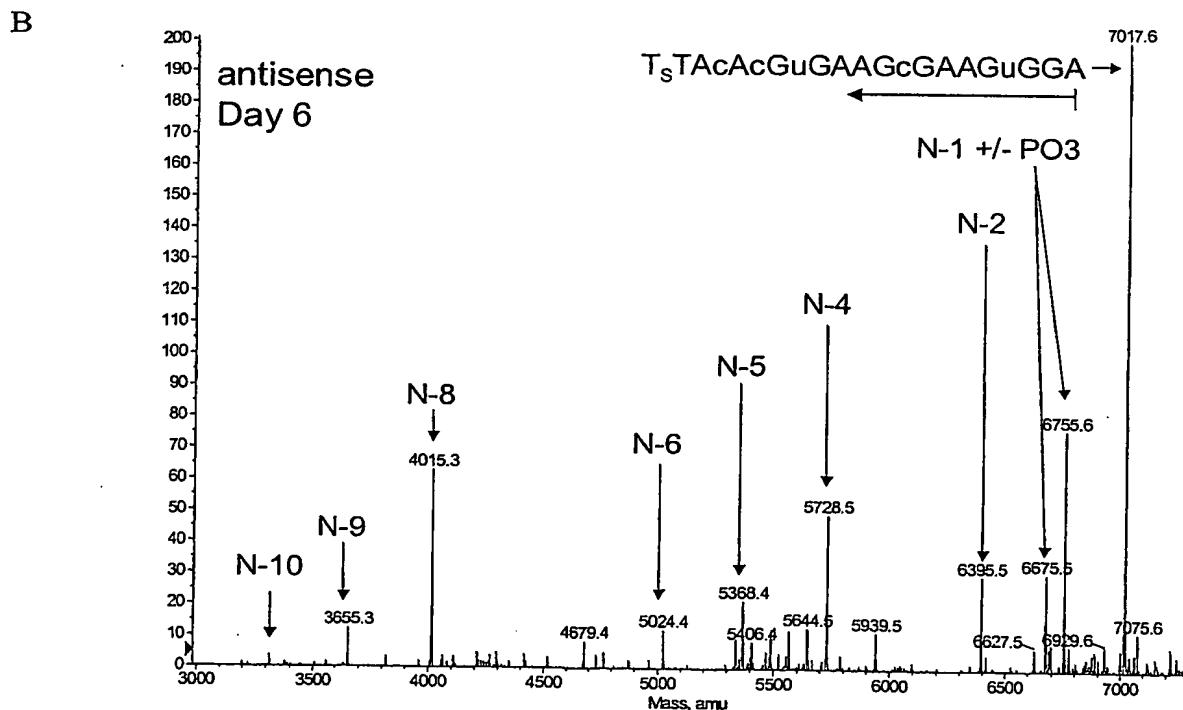
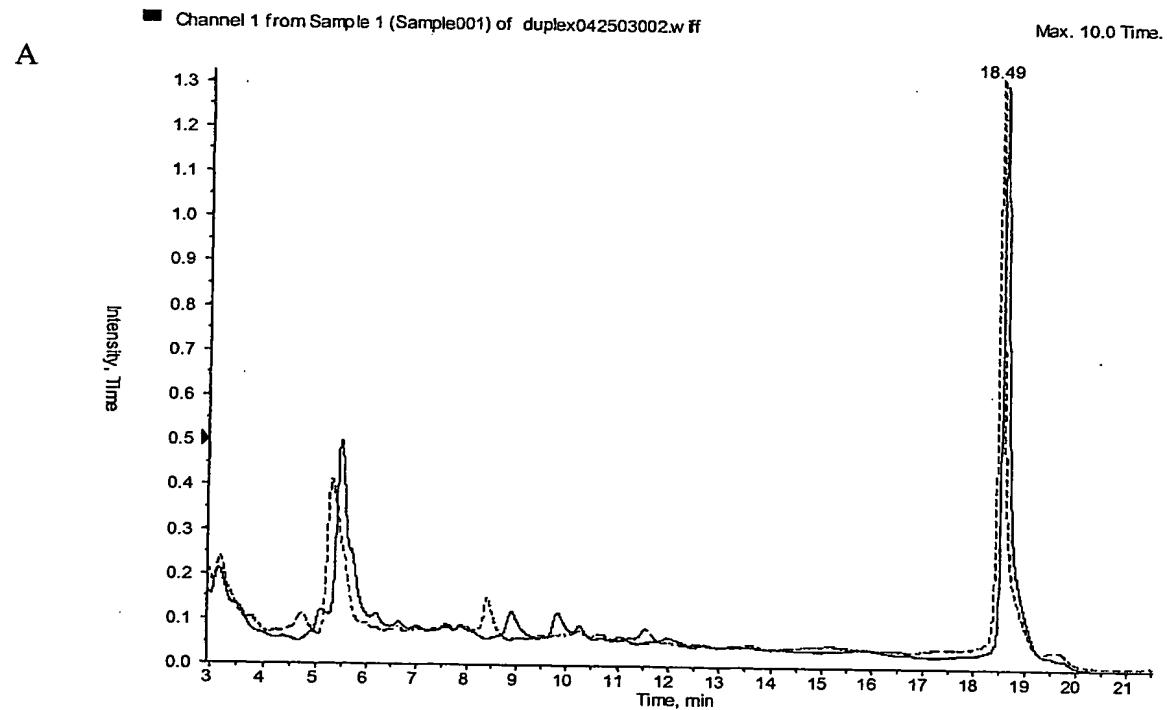
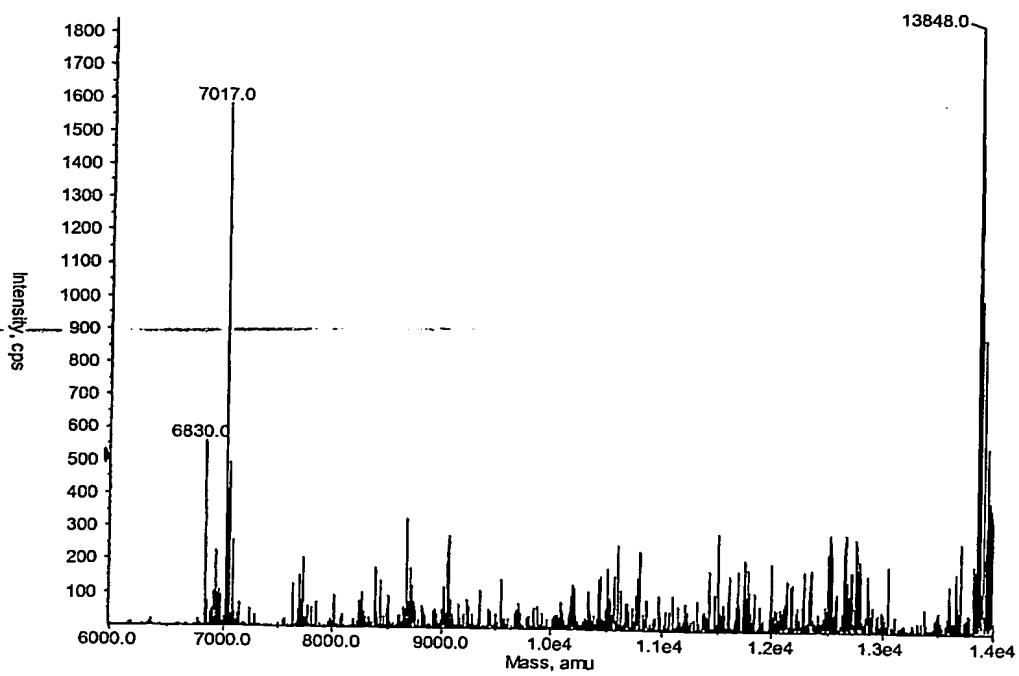


Figure 13

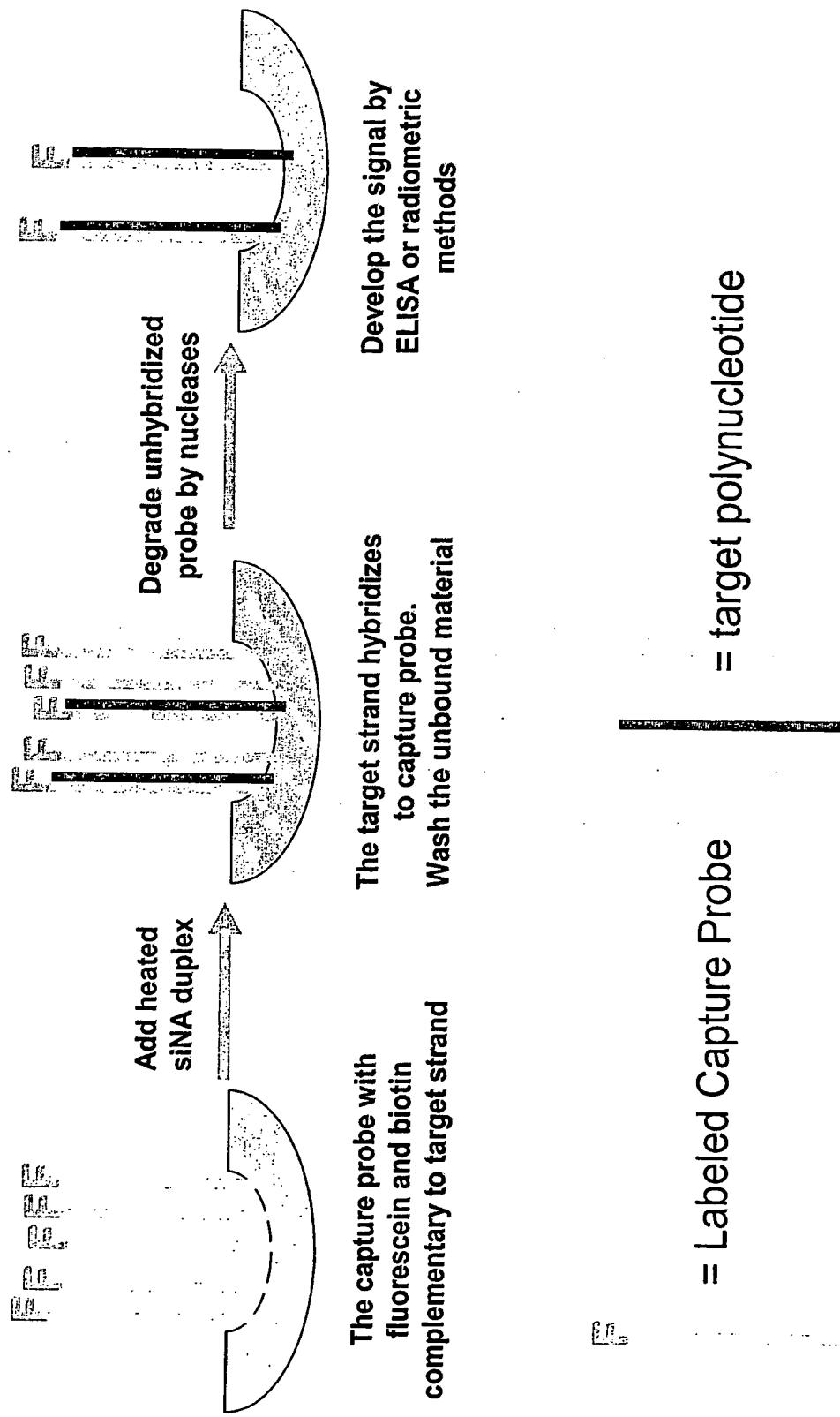


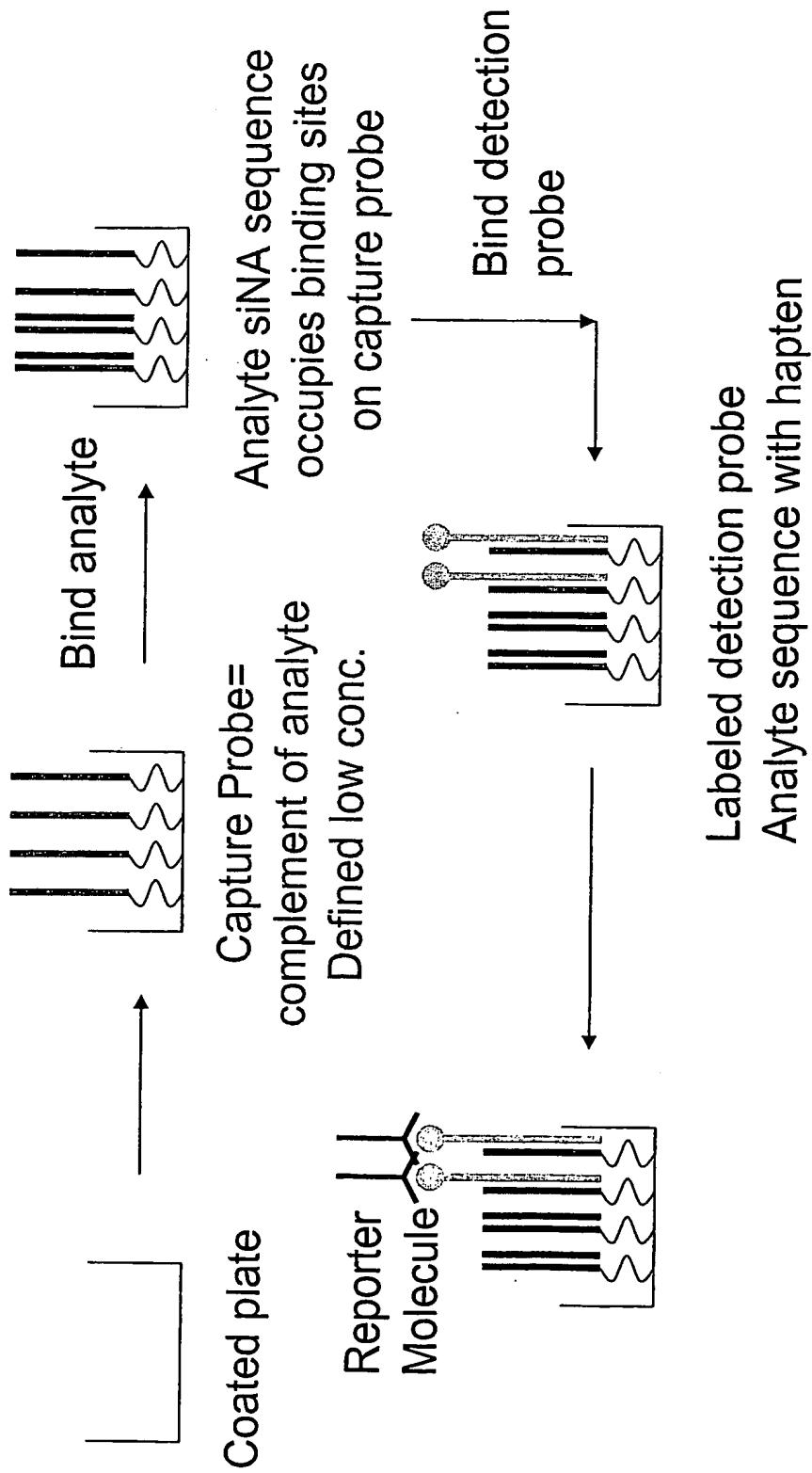
Mass reconstruction of -Q1: 17.787 to 19.833 min from Sample 15 (Sample005a) of duplex05050..Max. 1836.9 cps.

B



*Figure 14*



**Figure 15**

In this design, binding of the target siRNA (in step 1) prevents binding of a secondary detection probe (in step 2). Therefore, signal is inversely proportional to analyte concentration.

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